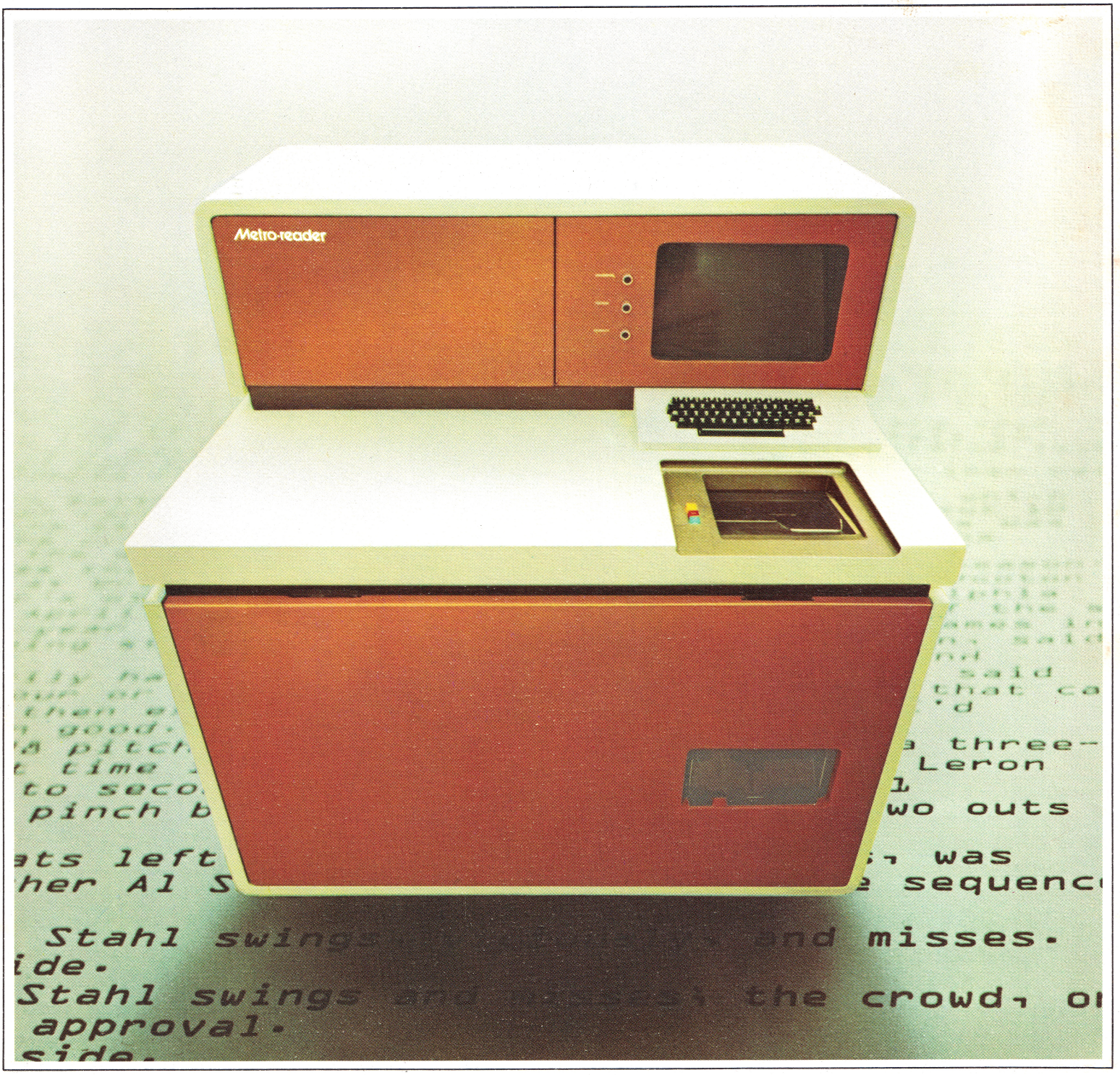
$44,900

Metro-reader

the OCR you helped to design



Metro-reader

WHAT THE NEWSPAPER INDUSTRY WANTED IN AN OCR

Because MGD consulted directly with newspaper people to find out what you wanted and needed in an Optical Character Reader, MGD's Metro-reader is the newspaper's OCR.

Metro-reader features a unique laser scanner to provide the simplicity of operation and systems reliability so essential to a newspaper operation. The special laser beam scanner enables Metro-reader to be extremely *document tolerant.* It is not baseline critical so it will accept the most irregular type of copy and, as a result, copy preparation, copy editing, and training are greatly simplified.

Training in copy preparation is made even easier by Metro-reader's customer-oriented software and simplified command codes. A short 2 or 3 character command can generate a command string of up to 16 codes—so the typist doesn't need to learn complicated typographic function codes. In fact, many of the typesetting commands are automatically inserted by the Metro-reader.

Newspapers stressed the need for efficient and productive equipment design, so MGD designed the Metro-reader as a work station—a stand-up operation with plenty of flat work area to inspect and sort copy before processing.

To give Metro-reader the versatility and accuracy newspapers need, Metro-reader utilizes a visual display screen and keyboard which gives the operator the opportunity, when desired, to:

- Insert last minute correction and alteration without going back to the typewriter.
- Verify characters not 100% identifiable within the system.
- Diagnose problems in copy preparation.

This feature of the Metro-reader alerts the operator to any problems and allows him to correct it before typesetting.

Metro-reader's reliability has been proven under thorough and exhaustive in-house testing and also actual field operation... Plus it is supported by a six month warranty and by MGD's special customer service team, trained and ready to provide you the best service possible.

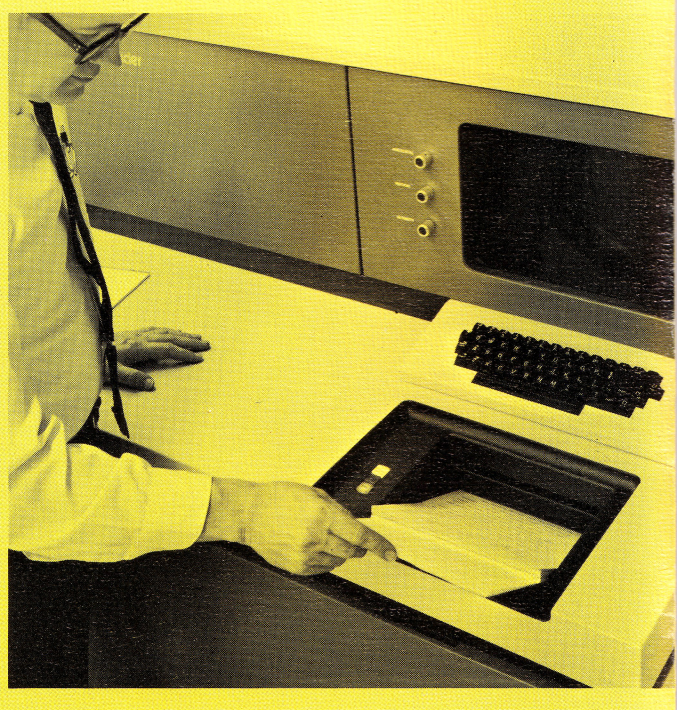
simplicity...versatility...accuracy...reliability

All combine to enable Metro-reader to fit easily and smoothly into your operation. Whether you're using hot type, cold type or both, Metro-reader is individually tailored to your operation and goes to work for you the day you put it in—which means you begin enjoying Metro-reader's cost cutting and labor saving benefits immediately.

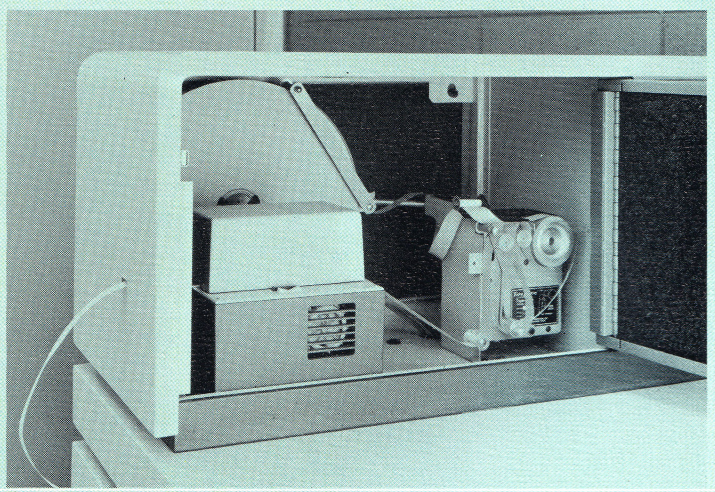
METRO-READER'S STAND-UP CONSOLE gives the operator ample room to inspect and sort copy. Everything is within easy reach—the simple operating controls and copy feeder are right at his fingertips to assure a smooth and efficient operation.

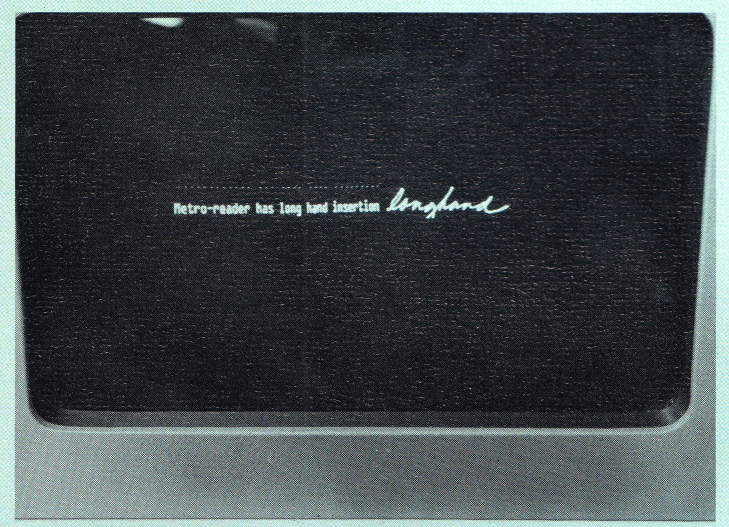
A NEWSPAPER OPERATION JUST CANNOT AFFORD PAPER-FEED PROBLEMS, so for Metro-reader MGD selected a simple yet extremely reliable feeder that has been used commercially for a number of years and has proven its ability. It is a positive friction feeder that will automatically handle a stack of over 30 documents in any paper width from 4½ inches to 8½ inches and any paper length from 4½ inches to over 48 inches. Additional documents can be added to the stack during operation.

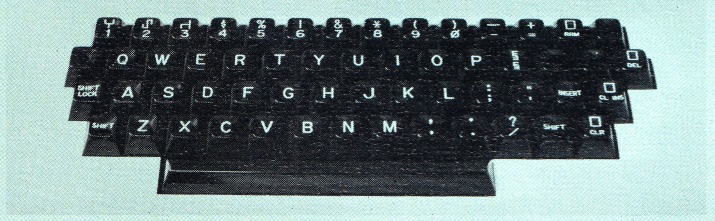
The routine for feeding documents follows a natural flow: A document stack is inserted face up into the feeder in its natural sequence—and then returned again in the same order and marked in red to indentify the processed copy. No paper congestion, no paper jamming.



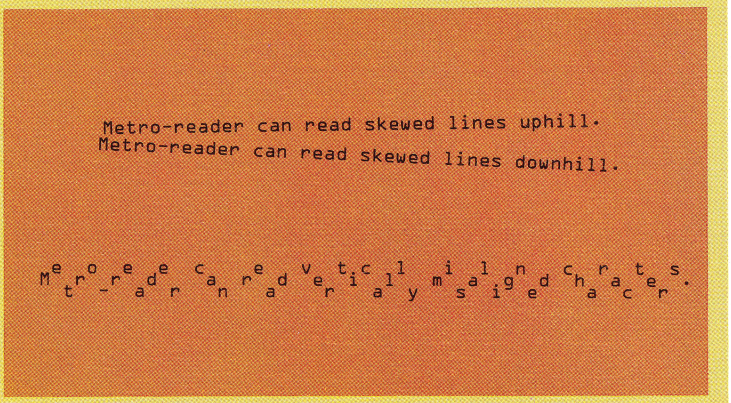
NEWSPAPER PRODUCTION REQUIRES A HIGH SPEED PUNCH SO Metro-reader utilizes a highly reliable 150 C.P.S. Facit Paper Tape Punch which allows the machine to run at its full recognition speed. It is specially designed to hold up to a 14″ paper tape roll so the punch doesn't require constant replenishment. And MGD enclosed the punch within the cabinet to make it as quiet as possible.



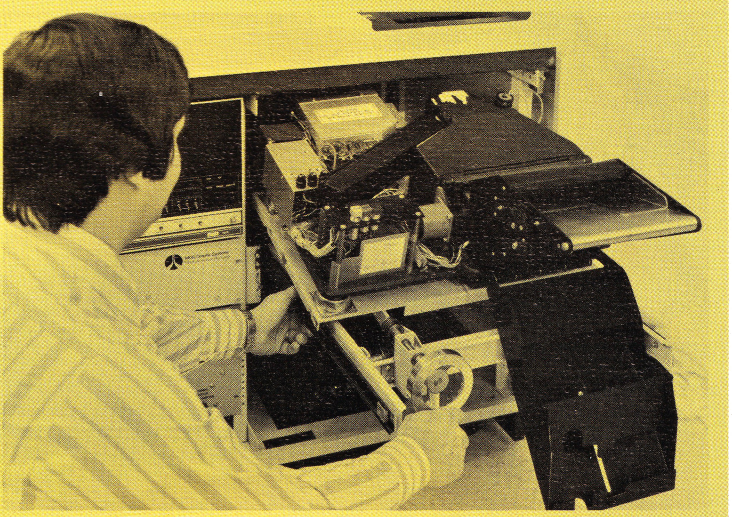




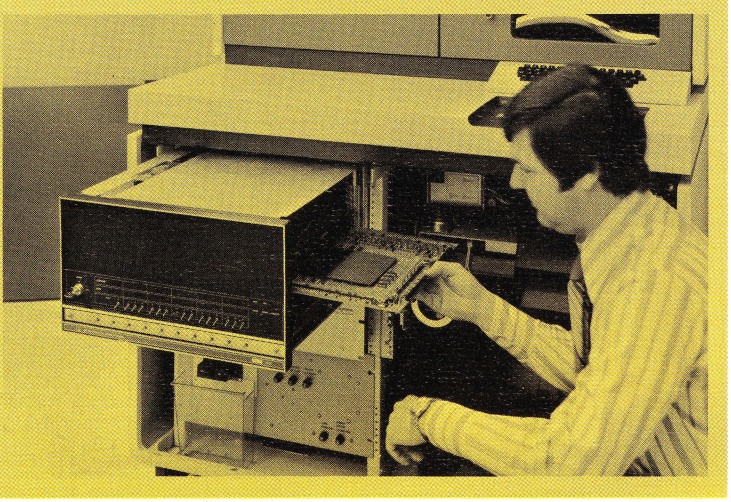
TO GIVE METRO-READER THE VERSATILITY THAT NEWSPAPERS NEED, MGD incorporated a display screen and keyboard to insert minor last minute corrections or alterations... and when absolute positive recognition is required, it gives you the ability to verify questionable characters. This means that when the machine encounters a character it cannot identify with 100% accuracy, the screen automatically displays the complete text line and flags the questionable character. The operator then simply verifies the character, thus alleviating a possible error and assuring optimum accuracy.



THE METRO-READER OVERCOMES THE DOCUMENT PREPARATION PROBLEM through its laser scanner and very flexible software—making Metro-reader extremely "Document Tolerant." This not only simplifies copy preparation and training, but facilitates copy editing—the typist can reinsert the copy into the typewriter without worrying about alignment or register with the original copy. The Metro-reader is not baseline critical. It is tolerant of skewed characters and variably spaced lines, so it will accept the most irregular type of copy, including paste-edited copy.

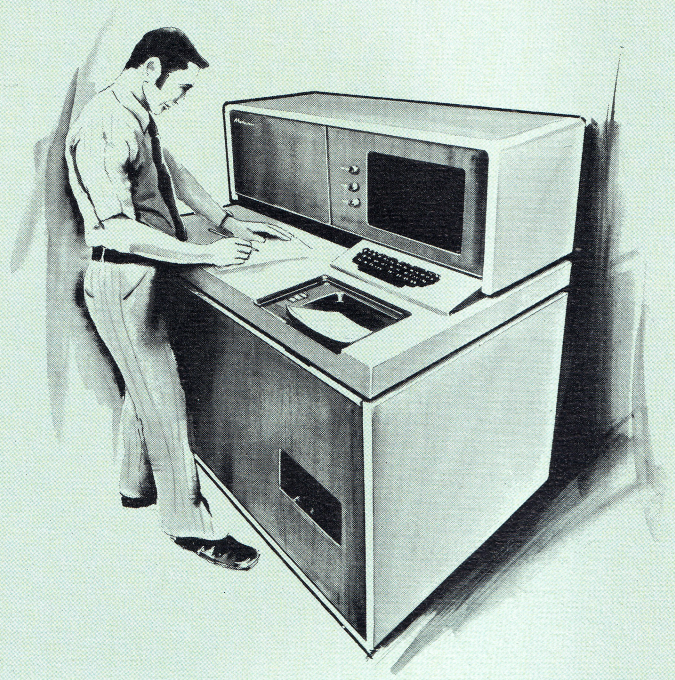


IN A TIME-CRITICAL INDUSTRY LIKE THE NEWSPAPER FIELD, equipment maintainability is of vital importance. Metro-reader meets this responsibility by utilizing the very latest electronic technology and by minimizing the number of moving parts within the system—normal maintenance consists merely of a periodic cleaning of the paper feed rollers. The machine is completely front serviceable—with all components mounted on tracks so they can be rolled out for quick and easy servicing.



Metro-reader
specifications

- **Extremely high accuracy rate for numeric characters—of particular importance in classified advertising.**
- **Customized output to meet customer coding requirements.**
- **Production output equivalent to 15 keyboard operators.**
- **Capable of handling handwritten corrections.**
- **Complete typewriter and mark-thru editing.**
- **Selective scanning for forms recognition.**
- **Display screen and keyboard for optimum accuracy.**
- **Software flexibility that makes operation and training remarkably simple.**



STANDARD HARDWARE
- Laser Scanner
- Automatic Document Feeder (Over 30 Document Capacity)
- Nova Computer
- Keyboard and Visual Display
- Paper Tape Reader
- Paper Tape Punch (150 cps) with 14″ Roll Adaptor in Noise Suppressing Enclosure
- Cabinet Designed for work surface and Operator Efficiency

OPERATOR SELECTABLE RECOGNITION MODES
- Logic Recognition with Substandard Characters Displayed
- Logic Recognition with Special "Best Match" Analysis for Substandard Characters

RECOGNITION CHARACTERISTICS
- Effective Recognition Rate: 850 Words Per Minute
- Document Thru-put Rate: 3-4 Text Pages (8½ x 11) Per Minute
- Recognition Error Rate: 0.01% Alpha, 0.002% Numeric

INPUT SPECIFICATIONS
- Document Size: 4½″ to 8½″ wide; 4½″ to 48″ long
- Document Margins: ½″ Minimum on all four sides
- Paper Type & Weight: OCR Bond, 16 to 24 lb.
- Character Density: 10 Pitch (Characters per inch) Up to 75 Characters per line. Minimum of .070″ white space between lines (5 lines/inch max.)
- Type Fonts Read: OCR-A, OCR-B, Courier 12
- Line Skew Tolerance: Up to 1/6 inch
- Character Baseline Misalignment: Up to 1/6 inch
- Editing Pen: Black
- Non-Readable Color: Red

SPECIAL DOCUMENT SOFTWARE
- Document Skip-In to Predetermined Depth
- Variable Width Document Reading (4½″ to 8½″)
- Selected Data Area Reading and Interpretation

DOCUMENT EDITING AND CORRECTION SOFTWARE
- Typed Delete Symbol Editing
- Mark-Thru Copy Editing (Vertical and Horizontal)
- Typed Inter-Line Insertion
- Paragraph Indention Recognition
- Operator-Keyed Data Insertion

OUTPUT CODING
- Customized Output Code Configurations Including Text and Head Styles, Pi Characters and Other Customer-Oriented Code Strings
- Paper Tape Visuals

OPTIONAL FEATURES
- On-Line Interfaces for PDP-8, IBM 1130, EIA Standard Communications and Data-Set

GENERAL
Dimensions:	32″ Depth, 48″ Wide, 53″ High
Weight:	600 lbs.
Power Requirements:	Voltage—115V ± 10% or 230V ± 10% Frequency—50 or 60 Hz Circuit—20 AMP, Single Phase Power Consumption—1 KVA
Operating Environment:	Temperature—60° to 95° F Humidity—10% to 75%

MGD Graphic Systems Division
Rockwell International

2735 Curtiss Street
Downers Grove, Illinois 60515
312-963-4600

The MGD *Metro-reader*...

The OCR you helped design

Metro-reader features characterr= and wrod==word deletion editing.

Metro-reader kills complete lines===Metro-reader has line deletion.

It also has horizontal ~~deletion~~ and vertical mark through deletion.

<vt Metro-reader has insertion for ease of editing.

+ between lines +

<vt Metro-reader has a visual tag line for quick tape identification.

<vt M e t r o - r e a d e r c a n r e a d v e r t i c a l l y m i s a l i g n e d c h a r a c t e r s.

Metro-reader can read skewed lines uphill.
Metro-reader can read skewed lines downhill.

Metro-reader has a VDT that displays what the scanner sees.

Metro-reader has a keyboard correction feature for error-free copy.
Metro-reader can read variably spaced lines.

Metro-reader reads dirty copy. Just watch...

<vt It red=ads coy== K=copy knoo=t red=adc=ably=e buy hume=ayn I=eye.

Metro-reader has a very special insertion feature.

Metro-reader is totally serviced and supported by MGD.

Metro-reader identifies processed copy with a special red mark.

And because it doesn't read red, all mark-up is written in red.

For ease of training and smooth operation, Metro-reader has:

Simple style-setting command codes - <b4, <c9, <i2

And easy-to-remember typesetting command codes - <ta, <ju, <wl

Plus, Metro-reader has normal fraction recognition - 1/3, 4 1/8

<vt Thank you for taking part in MGD's Metro-reader demonstration.

MGD Graphic Systems Division
Rockwell International

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